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MOUNTING HEIGHTS DEVICE MOUNTING HEIGHT REFER TO ABBREVIATION LIST ON (THIS SHEET) (SHEET NO. E-\_\_). REFER TO SYMBOL LEGEND ON (THIS SHEET) (SHEET NO. E-\_\_). SWITCHES (BARE CONCRETE AND 4 FEET 0 INCHES BLOCK WALLS) REFER TO MOUNTING HEIGHTS ON (THIS SHEET) (SHEET NO. E-\_\_). **SWITCHES** 4 FEET 0 INCHES LIGHTING SYSTEM, IN ADDITION TO POWER AND BRANCH CIRCUITS, SHALL ALSO (ALL OTHER FINISHES) BE RUN WITH INSULATED GROUND WIRES. GROUND WIRES SHALL BE SIZED PER RECEPTACLES 1 FOOT 8 INCHES (NEC) ANSI/NFPA 70 CODE REQUIREMENTS WHEN GROUND WIRES ARE NOT (FINISHED AREAS) INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. RECEPTACLES 4 FEET 0 INCHES COORDINATE CLOSELY WITH MECHANICAL (DIVISION 15) AND DIVISION 2 THRU (UNFINISHED AREAS) 14 ON INSTALLATION OF PIPING, DUCTWORK, ELECTRICAL WORK, MECHANICAL WORK, EQUIPMENT, AND BUILDING CONSTRUCTION TO AVOID INTERFERENCES. RECEPTACLES 3 FEET 0 INCHES (MECHANICAL ROOMS) ELECTRICAL EQUIPMENT, FIXTURES, AND OUTLETS SHALL BE COORDINATED WITH RECEPTACLES (OVERCOUNTER WITH O FEET 6 INCHES EQUIPMENT, FURNITURE, WORK STATIONS, AND ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS. DEVICES SHALL BE POSITIONED TO BE SPLASH BOARD) ABOVE SPLASH BOARD ACCESSIBLE IN ALL INSTANCES. RECEPTACLES (OVERCOUNTER WITHOUT 0 FEET 10 INCHES ABOVE HORIZONTAL PLANE OF COUNTER SPLASH BOARD) TO AVOID SOUND TRANSMISSION THROUGH WALLS, OUTLET AND SWITCH BOXES ON OPPOSITE SIDES OF ANY WALL SHALL NOT BE MOUNTED BACK TO RECEPTACLES 1 FOOT 8 INCHES BACK, PARTICULARLY IN BATHROOMS, OFFICES, AND OTHER SIMILAR AREAS. (EXTERIOR WALLS) ABOVE FINISHED GRADE SURFACE MOUNTED CONDUIT AND BOXES RUN ON EXISTING BARE CONCRETE MULTI-OUTLET WIREWAYS 1 FOOT 8 INCHES AND BLOCK WALLS SHALL NOT BE ALLOWED UNLESS APPROVED BY OWNER. TELEPHONE AND SURFACE MOUNTED CONDUIT AND BOXES RUN EXPOSED ON EXISTING GYPSUM 1 FOOT 8 INCHES PARTITIONS SHALL NOT BE ALLOWED. COMMUNICATION OUTLETS TELEPHONE OUTLETS 4 FEET 0 INCHES FIELD VERIFY WITH ARCHITECTURAL AND MECHANICAL PRIOR TO INSTALLATION (WALL MOUNTED PHONES) OF CONDUIT FOR EXACT POSITION OF IN-FLOOR OUTLETS, FREE STANDING COUNTERS, AND DESKS WHICH REQUIRE CONDUIT TO BE SLEEVED THROUGH TELEPHONE OUTLETS O FEET 6 INCHES ABOVE SPLASH BOARD (OVERCOUNTER PHONES) . PROPERLY SUPPORT CEILING MOUNTED LIGHTS AND ANY OTHER EQUIPMENT PAY TELEPHONE OUTLETS 4 FEET 0 INCHES INDEPENDENT OF CEILING SUPPORT SYSTEM, ESPECIALLY THOSE ITEMS WHICH (HANDICAP ACCESSIBILITY PHONES) (FIELD VERIFY ACTUAL HEIGHT WITH ONLY PARTIALLY FILL A CEILING TILE. PHONE SUPPLIER) PAY TELEPHONE OUTLETS 4 FEET 6 INCHES CONDUITS SHALL NOT BE RUN OR INSTALLED IN CONCRETE SLABS UNLESS (FIELD VERIFY ACTUAL HEIGHT WITH (NORMAL ACCESSIBILITY PHONES) NOTED OTHERWISE IN SPECIFICATIONS OR ON THE DRAWINGS. CONDUITS MAY PHONE SUPPLIER) PENETRATE CONCRETE (CORE) SLAB AT NECESSARY POINTS FOR EQUIPMENT OR DEVICES BEING SERVED. PROVIDE FIRE STOPPING AT ALL SLAB PENETRATIONS. 4 FEET 0 INCHES WALL INTERCOM STATIONS DO NOT CUT STRUCTURAL MEMBERS SUCH AS REBAR, STEEL BEAMS, AND ANY (FIELD VERIFY ACTUAL HEIGHT) OTHER SIMILAR STRUCTURAL MEMBERS. DESK MOUNTED INTERCOM 1 FOOT 8 INCHES 2. CONDUITS RUNNING TO FREE STANDING COUNTERS, SUCH AS NURSE STATIONS, WITH WALL CONNECTOR RECEPTION DESKS, SHALL CONTAIN ONLY WIRES AND CABLES SERVING THAT SAFETY SWITCHES **5 FEET 0 INCHES** RESPECTIVE LOCATION. FREE STANDING LOCATIONS SHALL NOT BE USED AS TO CENTERLINE OF HANDLE INTERMEDIATE ROUTING PATHS OR POINTS FOR CABLES AND WIRES SERVING OTHER AREAS. 5 FEET 0 INCHES MOTOR STARTERS TO CENTERLINE OF HANDLE 13. FURNISH AND INSTALL PLASTER/EXTENSION RINGS OF APPROPRIATE SIZE TO ACCOMMODATE LIGHTING/POWER/COMMUNICATION DEVICES AND COVER 6 FEET 0 INCHES PANEL CABINETS PLATE LOCATIONS WHICH PENETRATE CONTRACTOR AND OWNER SUPPLIED TO TOP OF PANEL (PROVIDING BOTTOM IS NOT LESS MILLWORK/CASEWORK. THAN 12 INCHES ABOVE FLOOR) 14. OPENINGS IN MILLWORK/CASEWORK FOR ELECTRICAL DEVICES, EXTENSION FIRE ALARM - PULL STATIONS 4 FEET 0 INCHES RINGS, COVER PLATES, AND OTHER DECORATIVE ITEMS, SHALL BE CLOSELY (BARE CONCRETE AND BLOCK WALLS) COORDINATED WITH OTHER TRADE CONTRACTORS. OPENINGS SHALL BE FIRE ALARM - PULL STATIONS 4 FEET 0 INCHES FURNISHED BY ARCHITECTURAL TRADES. (ALL OTHER FINISHES) 5. WORK SHALL BE COORDINATED THROUGH THE GENERAL CONTRACTOR/ FIRE ALARM - SPEAKER, CHIMES, BELLS, 6 FEET 8 INCHES CONSTRUCTION MANAGER PRIOR TO INSTALLATION OF ANY EQUIPMENT, OR HORNS TO BOTTOM OF HORN CONDUIT, AND WIRE. SEE TYPICAL ELEVATION ON ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL, MECHANICAL, AND ELECTRICAL SPACE ALLOCATIONS. FIRE ALARM STROBES 6 FEET 8 INCHES TO BOTTOM OF STROBE ABOVE HIGHEST S. COORDINATE AND CONSULT WITH ARCHITECTURAL AND MECHANICAL FOR FLOOR OR ANY MISCELLANEOUS EQUIPMENT BEING FURNISHED WHICH REQUIRES 0 FEET 6 INCHES ELECTRICAL WORK. WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT. TO CENTER OF STROBE BELOW CEILING, WHICHEVER IS LOWER 7. CIRCUIT NUMBERS INDICATED FOR EXISTING PANELS ARE SCHEMATIC ONLY. PUSHBUTTONS (ELECTRICAL AND 5 FEET 0 INCHES FIELD VERIFY EXACT SPARE AND SPACE CIRCUIT NUMBERS DURING MECHANICAL ROOMS) CONSTRUCTION. RECORD ALL CIRCUIT NUMBER DISCREPANCIES OR CHANGES ON THE RECORD DRAWINGS AND SEND A COPY TO THE ELECTRICAL ENGINEER. PUSHBUTTONS 4 FEET 0 INCHES (FINISHED AREAS) 18. CONSULT MECHANICAL AND ARCHITECTURAL FOR AREAS OF EXISTING BUILDING WHICH MAY REQUIRE TEMPORARY REMOVAL AND SUBSEQUENT PUSHPLATES 3 FEET 9 INCHES REINSTALLATION OF CEILING MOUNTED EQUIPMENT SUCH AS LIGHT FIXTURES, CARD READERS 4 FEET 0 INCHES SMOKE DETECTORS, AND SPEAKERS. WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT. CLOCK OUTLETS 7 FEET 0 INCHES 19. EQUIPMENT SHOWN AS OWNER FURNISHED (OF) AND CONTRACTOR INSTALLED TELEVISION OUTLETS 7 FEET 6 INCHES (CI) SHALL BE RECEIVED, TRANSPORTED, AND INSTALLED IN LOCATIONS SHOWN ON THESE CONTRACT DOCUMENTS BY CONTRACTOR. OWNER SHALL 7 FEET 0 INCHES SPEAKERS PURCHASE AND DELIVER EQUIPMENT TO SITE ONLY. (WALL MOUNTED) **VOLUME CONTROL** 20. REFER TO ARCHITECTURAL SHEETS FOR SEQUENCE OF CONSTRUCTION 4 FEET 0 INCHES (WALL MOUNTED) (PHASING/STEPS) AND ADDITIONAL CRITERIA ON CORING. X-RAY VIEW BOX RECEPTACLES 3 FEET 6 INCHES . PROVIDE ALL UNDERCOUNTER EQUIPMENT WITH RECESSED CLOCK TYPE RECEPTACLES WITH GROUND. NURSE CALL - STAFF, DUTY, 4 FEET 0 INCHES CODE BLUE AND EMERGENCY 22. REFER TO OTHER DISCIPLINE SHEETS FOR ADDITIONAL REQUIREMENTS. PUSHBUTTON STATIONS NURSE CALL - TOILET STATION 4 FEET 6 INCHES WITH END OF PULL CORD AT 1 FEET 6 INCHES **NURSE CALL - PATIENT STATIONS** 4 FEET 6 INCHES AS SHOWN ON ARCHITECTURAL ELEVATION NURSE CALL - DOME LIGHTS 7 FEET 8 INCHES (WALL MOUNTED)

7 FEET 6 INCHES

. IN GENERAL, MOUNTING HEIGHTS LISTED ABOVE ARE FROM FINISHED FLOOR TO TOP OF BOX, UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR ABOVE IN

23. COORDINATE AND PROVIDE ALL INTERCONNECTING WIRES, CONDUITS AND OUTLET BOXES PER MANUFACTURERS REQUIREMENTS FOR PARKING GATES, CARD READER CONTROLLED DOORS, POWER OPERATED AUTOMATIC DOORS, FIRE SHUTTERS, AND PROJECTION SCREENS TO OPERATE AS SPECIFIED. ALSO REFER TO ARCHITECTURAL GENERAL NOTES. 24. ALL ELECTRICAL WORK IN PATIENT CARE AREAS SHALL BE ACCORDING TO

ELECTRICAL GENERAL NOTES

ARTICLE 517 - HEALTH CARE FACILITIES OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. 5. INSTALL EMERGENCY/ESSENTIAL ELECTRICAL SYSTEM CONDUCTORS IN SEPARATE METALLIC CONDUIT AND BOXES. COLOR CODE OUTLET BOXES AND

ENCLOSURE ACCORDING TO NFPA 70, ARTICLE 517-30(c) AND 700-9(a).

ELECTRICAL NOTE

ELECTRICAL DRAWINGS INCLUDING ONE LINE DIAGRAM HAVE BEEN PREPARED FOR THE EXPRESS PURPOSE OF OBTAINING TENDERS AND FOR THE ENGINEERING OF THE ELECTRICAL INSTALLATION. IN ALL INSTANCES AFTER INSTALLATION AND ENERGIZATION OF ELECTRICAL SYSTEMS AND WHERE MODIFICATIONS OR ADDITIONS ARE REQUIRED TO EXISTING SYSTEMS, VERIFY BY ACTUAL FIELD TESTS THAT APPLICABLE CIRCUITS ARE DEENERGIZED PRIOR TO WORKING ON SYSTEMS.

## FULLY SPRINKLERED

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Drawing Title ELECTRICAL SHEET INDEX AND CANTEEN P. GARLAND

NURSE CALL - DUTY DOME LIGHTS

(WALL MOUNTED)

Project Number MODERNIZATION OF KITCHEN 506-10-108 Building Number **B-1 WEST** Drawing Number ANN ARBOR, MICHIGAN E-001 11-14-11 P.M.W.

Office of Construction and Facilities Management

**(2)** Dwg. 133 of 256